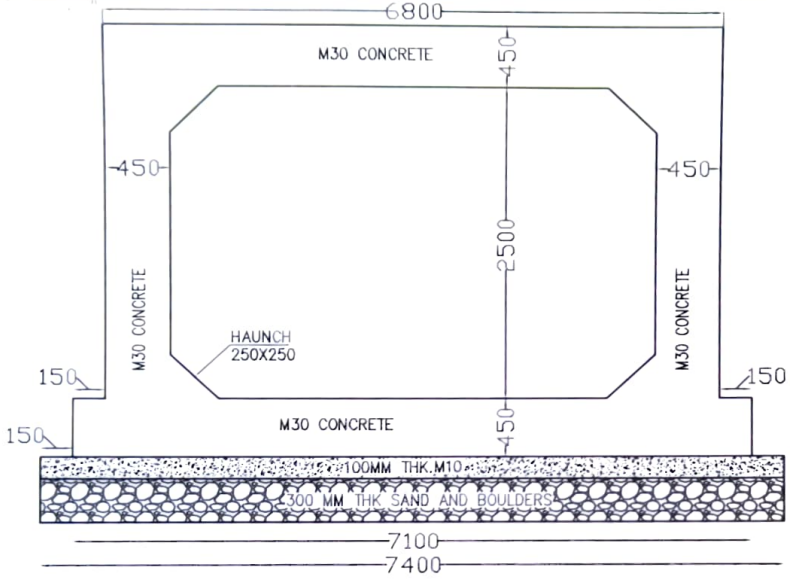
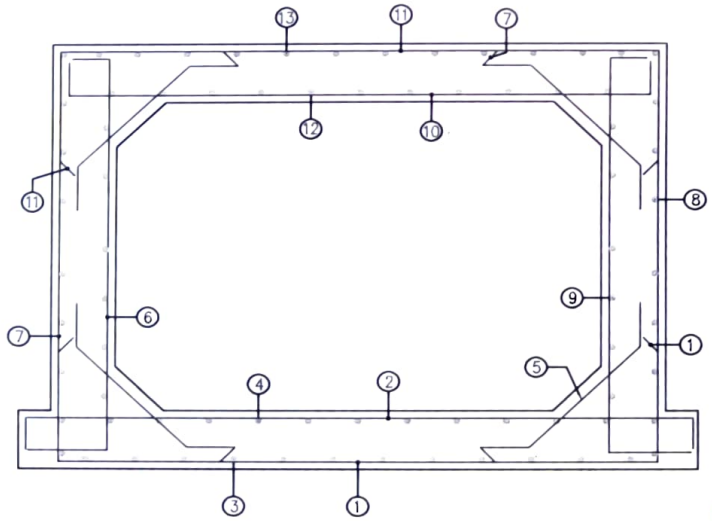
BH563B



TYPICAL C/S RCC BOX DRAIN



REINFORCEMENT DETAIL OF RCC BOX DRAIN

BAR NOS.	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
1	Φ 16	1100 3850 1100	180 c/c	
2	Φ 20	300 4000 300	180 c/c	
3	Φ 10	——	200 c/c	
4	Φ 10	——	200 c/c	
6	Φ 12	200 400 2650	200 c/c	
7	Φ 16	2650 1300 1300	180 c/c	
8	Φ 10	——	200 c/c	
9	Φ 10	——	200 c/c	
10	Φ 20	250 3800 300	180 c/c	
11	Φ 16	1100 3800 1100	180 c/c	
12	Φ 10	——	200 c/c	
13	Φ 10	——	200 c/c	
5	Φ 12	300 1000 300	150 c/c	

NOTES:-

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- GRADE OF CONCRETE FOR PCC SHALL BE M-10 UNLESS OTHERWISE SPECIFIED.
- GRADE OF CONCRETE FOR RCC SHALL BE M-25.
- REINFORCEMENT BARS SHALL BE HIGH YIELD STRENGTH DEFORMED BARS CONFORMING TO IS 1786.
- MINIMUM COVER TO REINFORCEMENT SHALL BE 50MM.
- THE LOCATION AND PROVISION OF CONSTRUCTION JOINT SHALL BE APPROVED BY ENGINEER INCHARGE.
- THE CONCRETE OPERATING SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.

DATE	No.	REVISION	DRAWN	CHECKED	APPROVED

CONSULTANTS:

J N PROJECTS PVT. LTD.
579, SRUSTI 21st Main, 4th T Block, Jayanagar,
BANGALORE – 560 041
E-mail: jnprojects4u@gmail.com

DATE

OWNER: BRUHATH BANGALORE MAHANAGARA PALIKE

DRAWN

PROJECT: Construction of RCC Retaining wall, U-Shape Drain Culvert and other allied works of SWD BH 563B from Yelenahalli to join the Dodda Begur Lake in Bangalore south assembly Constituency in Bommanahalli Zone.

PREPARED

APPROVED: RAJAGURU V M

DRG.NO.: 1 OF 1 | REV.: R0 | JOB.NO.: DPR | SCALE: NTS

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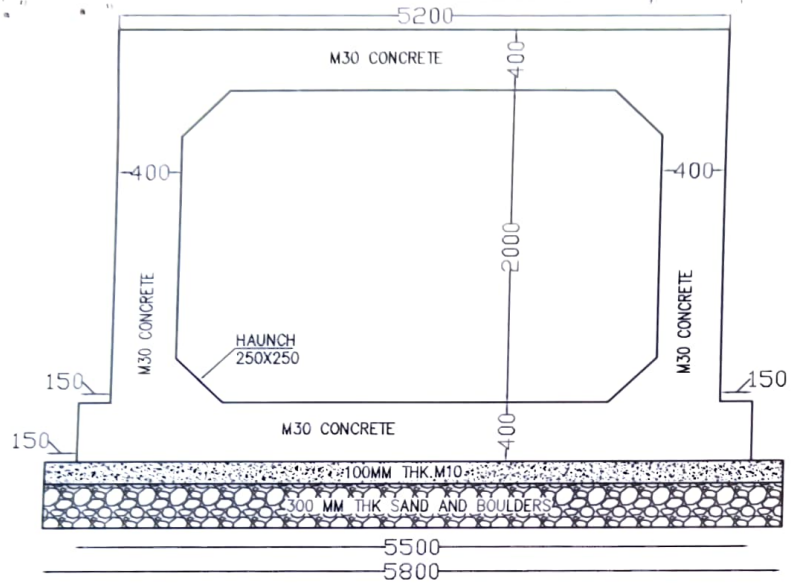
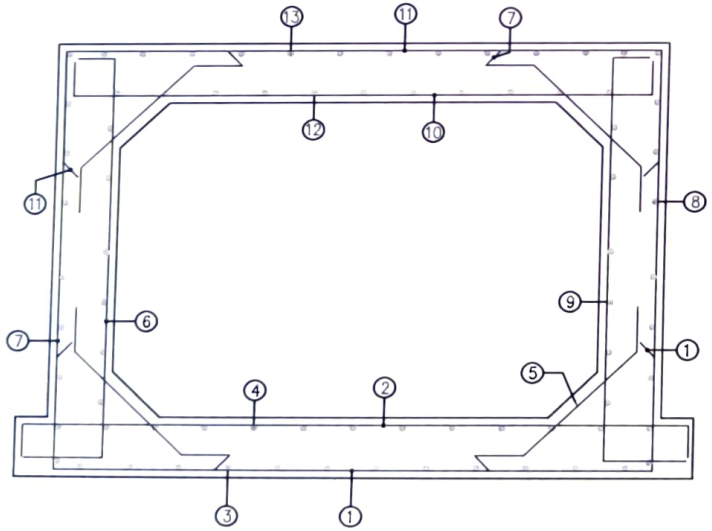
J.N. PROJECTS (P) LTD. BANGALORE

Sushmashri S
AE

BH563B



TYPICAL C/S RCC BOX DRAIN



REINFORCEMENT DETAIL OF RCC BOX DRAIN

BAR NOS.	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
1	Φ 16	150 3800 150	180 c/c	
2	Φ 20	300 4000 300	180 c/c	
3	Φ 10	——	200 c/c	
4	Φ 10	——	200 c/c	
6	Φ 12	200 400 2500	200 c/c	
7	Φ 16	200 1300 1300	180 c/c	
8	Φ 10	——	200 c/c	
9	Φ 10	——	200 c/c	
10	Φ 20	250 3800 250	180 c/c	
11	Φ 16	3800 150 150	180 c/c	
12	Φ 10	——	200 c/c	
13	Φ 10	——	200 c/c	
5	Φ 12	300 1000 300	150 c/c	

NOTES:-

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- THE CONCRETE OPERATING SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.

DATE	No.	REVISION	DRAWN	CHECKED	APPROVED

CONSULTANTS

J N PROJECTS PVT. LTD.
579, SRUSTI 21st Main, 4th T Block, Jayanagar,
BANGALORE - 560 041
E-mail: jnprojects@gmail.com

DATE

OWNER: BRUHATH BANGALORE MAHANAGARA PALIKE

DRAWN

PROJECT: Construction of RCC Retaining wall, U-Shape Drain Culvert and other allied works of SWD BH 563B from Yelenahalli to join the Dodda Begur Lake in Bangalore south assembly Constituency in Bommanahalli Zone.

PREPARED

APPROVED: RAJAGURU V M

DRG.NO.: 1 OF 1 | REV. R0 | JOB.NO.: DPR | SCALE: NTS

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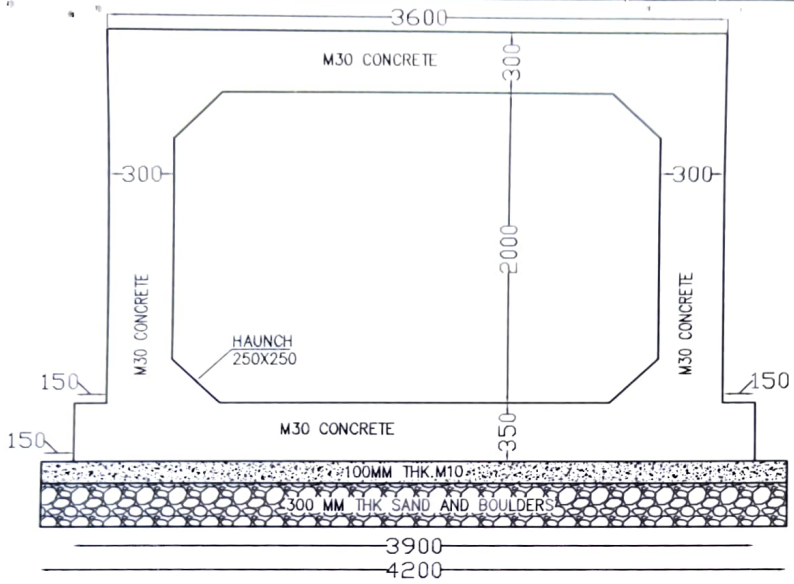
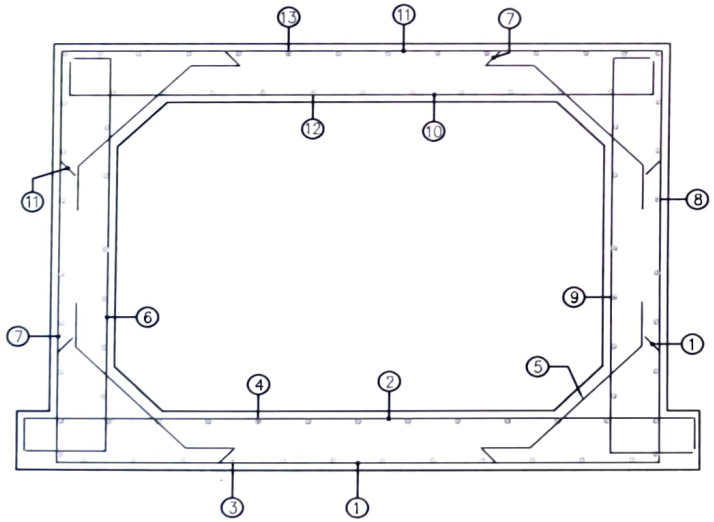
J.N. PROJECTS (P) LTD. BANGALORE

Sushmashri S AE

BH563B



TYPICAL C/S RCC BOX DRAIN



REINFORCEMENT DETAIL OF RCC BOX DRAIN

BAR NOS.	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
1	Φ 16	1100 3800 1100	180 c/c	
2	Φ 20	300 4000 300	180 c/c	
3	Φ 10		200 c/c	
4	Φ 10		200 c/c	
6	Φ 12	2000 400 2650	200 c/c	
7	Φ 16	1300 2650 1300	180 c/c	
8	Φ 10		200 c/c	
9	Φ 10		200 c/c	
10	Φ 20	250 3800 250	180 c/c	
11	Φ 16	3600 1100 1100	180 c/c	
12	Φ 10		200 c/c	
13	Φ 10		200 c/c	
5	Φ 12	300 1000 300	150 c/c	

NOTES:-

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- THE CONCRETE OPERATING SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.

DATE	No.	REVISION	DRAWN	CHECKED	APPROVED

CONSULTANTS:
J N PROJECTS PVT. LTD.
579, SRUSTI 21st Main, 4th T Block, Jayanagar,
BANGALORE – 560 041
E-mail: jnprojects@gmail.com

DATE

OWNER: BRUHATH BANGALORE MAHANAGARA PALIKE

DRAWN

PROJECT: Construction of RCC Retaining wall, U-Shape Drain Culvert and other allied works of SWD BH 563B from Yelenahalli to join the Dodda Begur Lake in Bangalore south assembly Constituency in Bommanahalli Zone.

PREPARED

APPROVED: RAJAGURU V M

DRG.NO.: 1 OF 1 | REV.: R0 | JOB.NO.: DPR | SCALE: NTS

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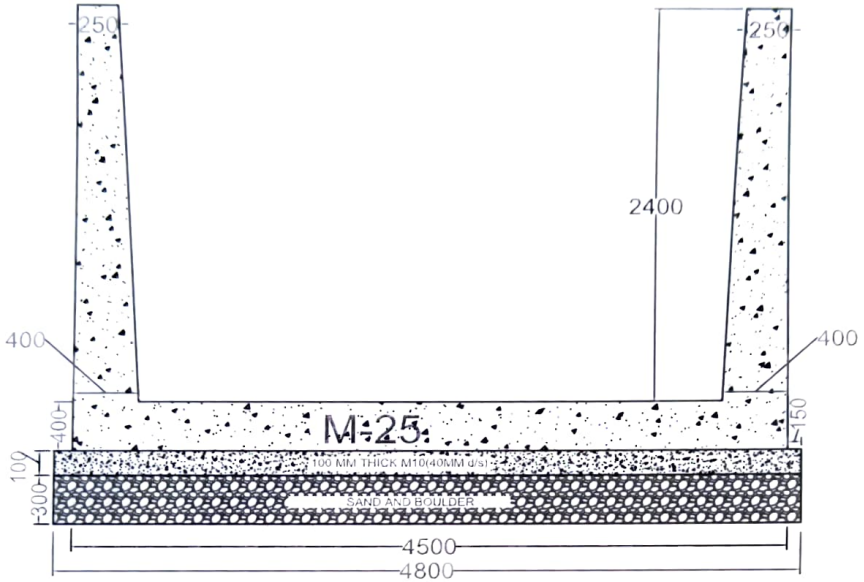
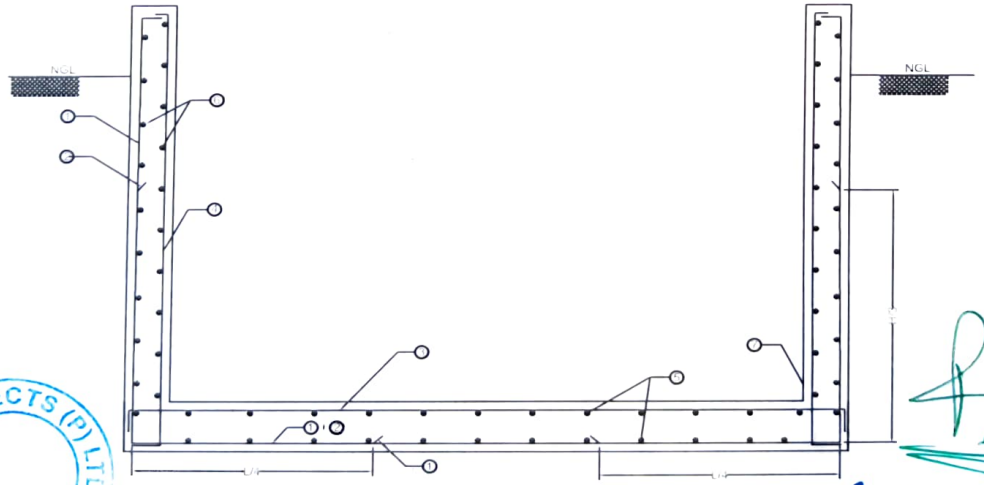
J.N. PROJECTS (P) LTD. BANGALORE

Sushmashri S AE



TYPICAL C/S U-SHAPE DRAIN

BAR NOS.	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
①	Φ 12	2150 / 300 / 700	150 c/c	
②	Φ 12	700 / 1800 / 700	150 c/c	
③	Φ 16	150 / 1800 / 150	150 c/c	
④	Φ 12	100 / 2150 / 100	175 c/c	
⑤	Φ 10	——	200 c/c	
⑥	Φ 10	——	200 c/c	



REINFORCEMENT DETAILS OF U-SHAPE DRAIN

NOTES:

- THIS DRAWING INDICATES THE GENERAL AND STRUCTURAL DETAILS OF U-SHAPE DRAIN
- ALL DIMENSION ARE IN MM AND LEVELS ARE IN METERS.
- DIMENSION ARE NOT TO BE SCALED, WRITTEN DIMENSION SHALL BE FOLLOWED.
- GRADE OF CONCRETE FOR PCC SHALL BE M-10 UNLESS OTHERWISE SPECIFIED.
- GRADE OF CONCRETE FOR RCC SHALL BE M-25
- REINFORCEMENT BARS SHALL BE HIGH YIELD STRENGTH DEFORMED BARS CONFORMING TO IS 1786
- MINIMUM COVER TO REINFORCEMENT SHALL BE 50mm
- THE LOCATION AND PROVISION OF CONSTRUCTION JOINT SHALL BE APPROVED BY ENGINEER INCHARGE.
- THE CONCRETE OPERATING SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.

J.N. PROJECTS (P) LTD. BANGALORE

Sushmashris AE

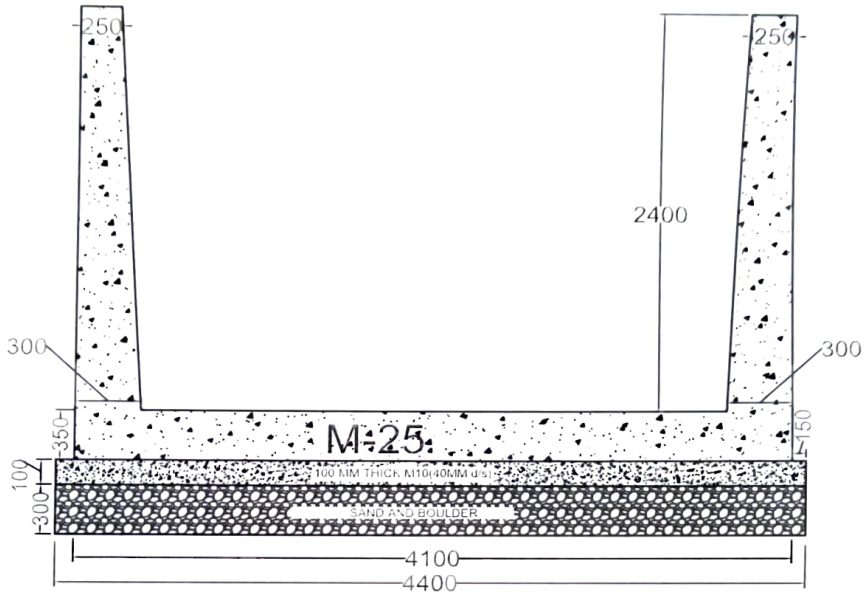
J N PROJECTS PVT. LTD.

BRUHATH BANGALORE MAHANAGARA PALIKE

Construction of RCC Retaining wall, U-Shape Drain, Culvert and other allied works of 220 Rd 24.30 from Yelachenhalli to Jain the Doddi Nagar Lake in Bangalore south assembly Constituency in Bommanahalli Zone.

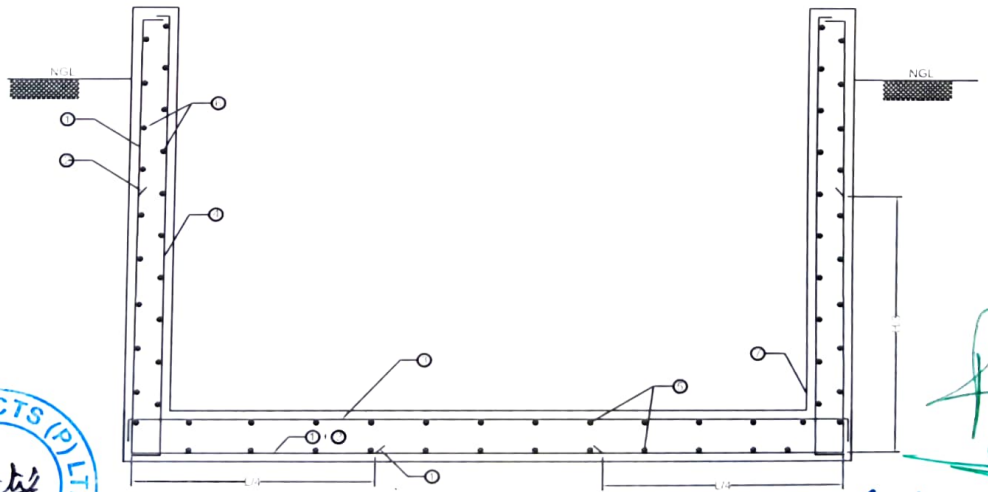
RANGARU Y M

ORG.NO.: REV. R0 JOB.NO.:



TYPICAL C/S U-SHAPE DRAIN

BAR NOS.	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
1	Φ 12	2150, 100, 700	150 c/c	
2	Φ 12	200, 1800, 200	150 c/c	
3	Φ 16	150, 1800, 150	150 c/c	
4	Φ 12	100, 2150, 100	175 c/c	
5	Φ 10	——	200 c/c	
6	Φ 10	——	200 c/c	



REINFORCEMENT DETAILS OF U-SHAPE DRAIN

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- THE CONCRETE OPERATING SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.

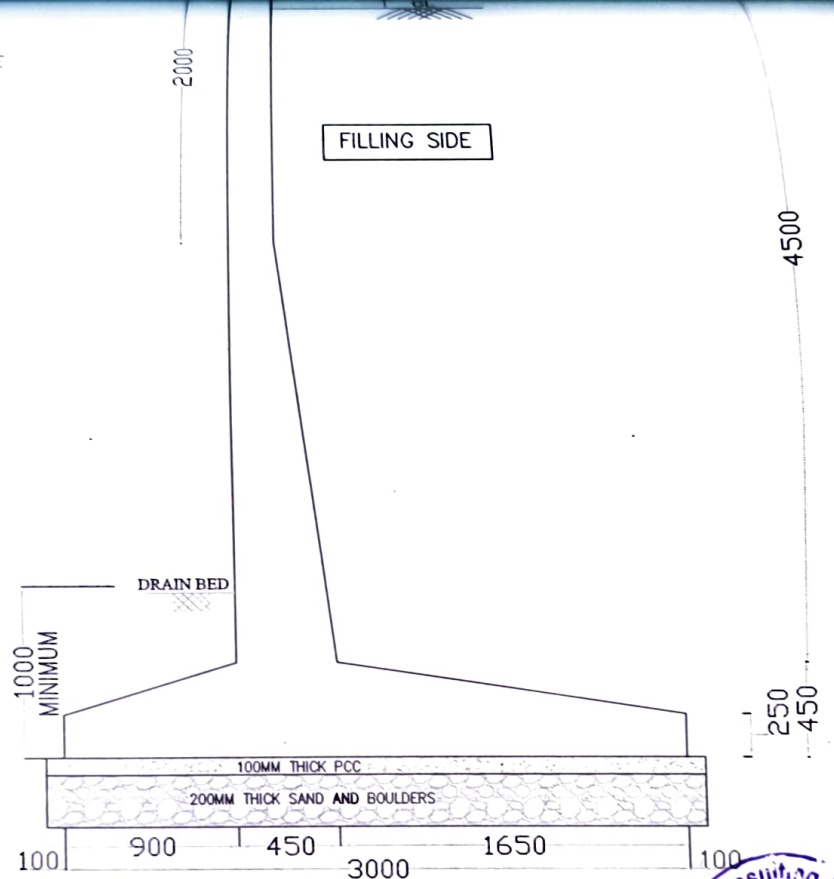
J.N. PROJECTS (P) LTD. BANGALORE

J N PROJECTS PVT. LTD.

BRUHATH BANGALORE MAHANAGARA PALIKE

Construction of RCC Retaining wall, U-Shape Drain, Culvert and other allied works of 2400 Rft 24.38 from Yelenahalli to Jala the Doddo Bagur Lake in Bangalore south assembly Constituency in Bommanahalli Zone.

DRG.NO.: REV. R0 JOB.NO.: NTS



SECTION OF RETAINING WALL OF HEIGHT 5.0M

NOTES:

- THIS DRAWING INDICATES THE GENERAL DETAILS OF RETAINING WALL.
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- GRADE OF CONCRETE FOR RCC SHALL BE M-25.

BRUHATH BANGALORE MAHANAGARA PALIKE

NAME OF WORK :-
Construction of RCC Retaining wall,U-Shape Drain, Culvert and other allied works from Ramya Amazing Cartoon to Joining (BH-861) and other surrounding areas in Bangalore south assembly Constituency in Bommanahalli Zone (BH-831-832)

CONSULTANT
SHRIRAMA CONSULTING ENGINEERS Pvt. Ltd.
Gangabal hangal Road, Sr M Vishweshwaraiah Layout,
8th extension block,Gkdakkanahalli,muddayanapalya main road,
Annapurneshwari nagar Bangalore,Karnataka- 560091
Ph: 23241948, CELL: 9964339888,
E-mail: shriramaconsultants@gmail.com

SHRIRAMA Consulting Engineers Pvt. Ltd. Bangalore

CONSULTANT

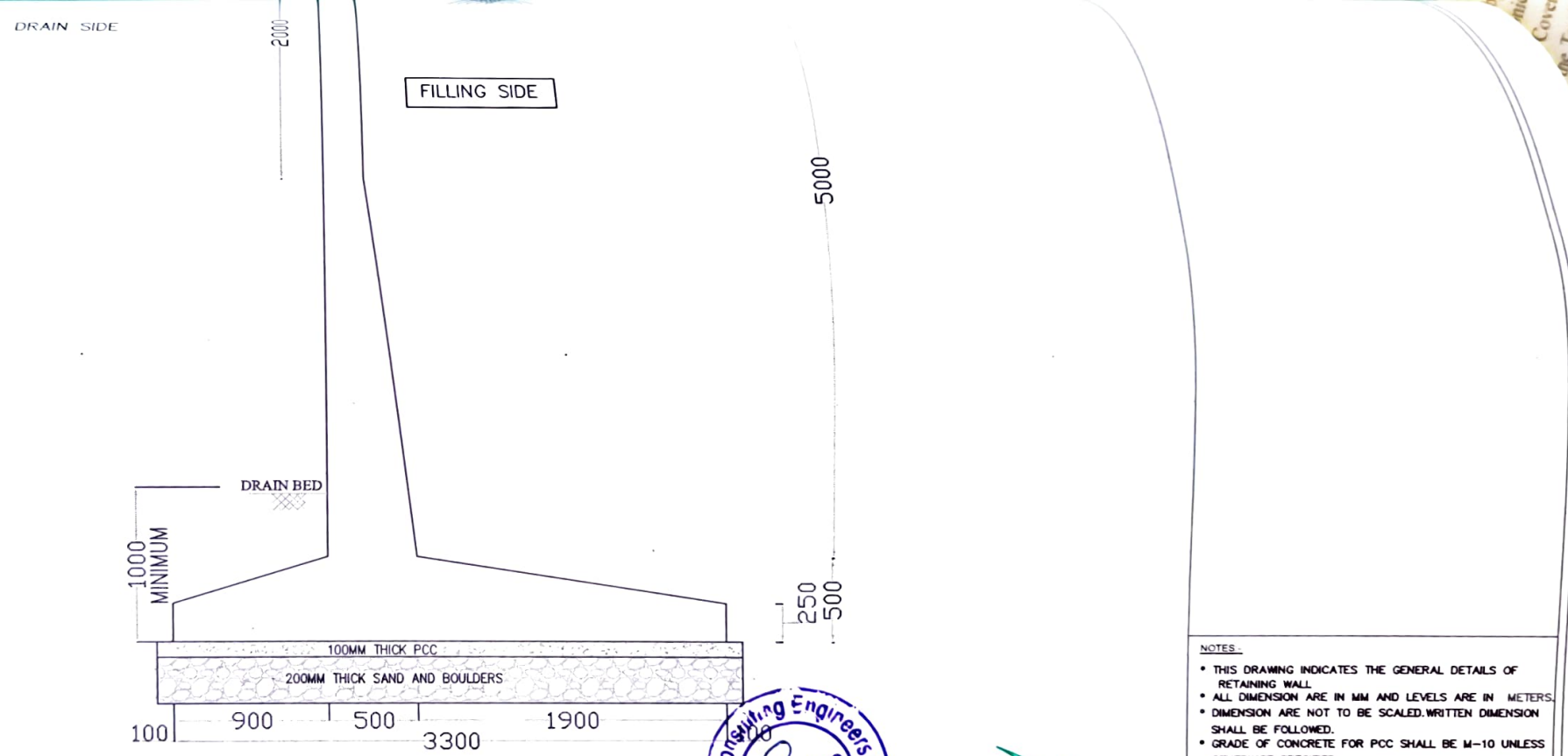
ASSISTANT ENGINEER
SWD
BBMP,BANGALORE

ASSI.EXECUTIVE ENGINEER
SWD
BBMP,BANGALORE

EXECUTIVE ENGINEER
SWD
BBMP,BANGALORE

CHIEF ENGINEER
SWD
BBMP,BANGALORE

SCALE
DWG NO: 1
NOTE :-



SECTION OF RETAINING WALL OF HEIGHT 5.0M

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- GRADE OF CONCRETE FOR RCC SHALL BE M-25.

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

BRUHATH BANGALORE MAHANAGARA PALIKE

NAME OF WORK:-
Construction of RCC Retaining wall,U-Shape Drain, Culvert and other allied works from BH-861 to Khodays Factory and other surrounding areas in Bangalore south assembly Constituency in Bommanahalli Zone (BH-861)

CONSULTANT

SHIPRAMA CONSULTING ENGINEERS Pvt. Ltd.
Gangabal hungal Road, Sir M Vishweshwaraiah Layout,
8th extension block,Gidokkanahalli,muddayanapalya main road,
Annapurneshwari nagar Bangaluru,karnataka-560091
PH: 23241948, CELL: 9964336888,
E-mail: shiprama888@gmail.com

CONSULTANT	ASSISTANT ENGINEER SWD BBMP,BANGALORE	ASSI.EXECUTIVE ENGINEER SWD BBMP,BANGALORE	EXECUTIVE ENGINEER SWD BBMP,BANGALORE	CHIEF ENGINEER SWD BBMP,BANGALORE

SCALE

DWG NO: 1

NOTE :-

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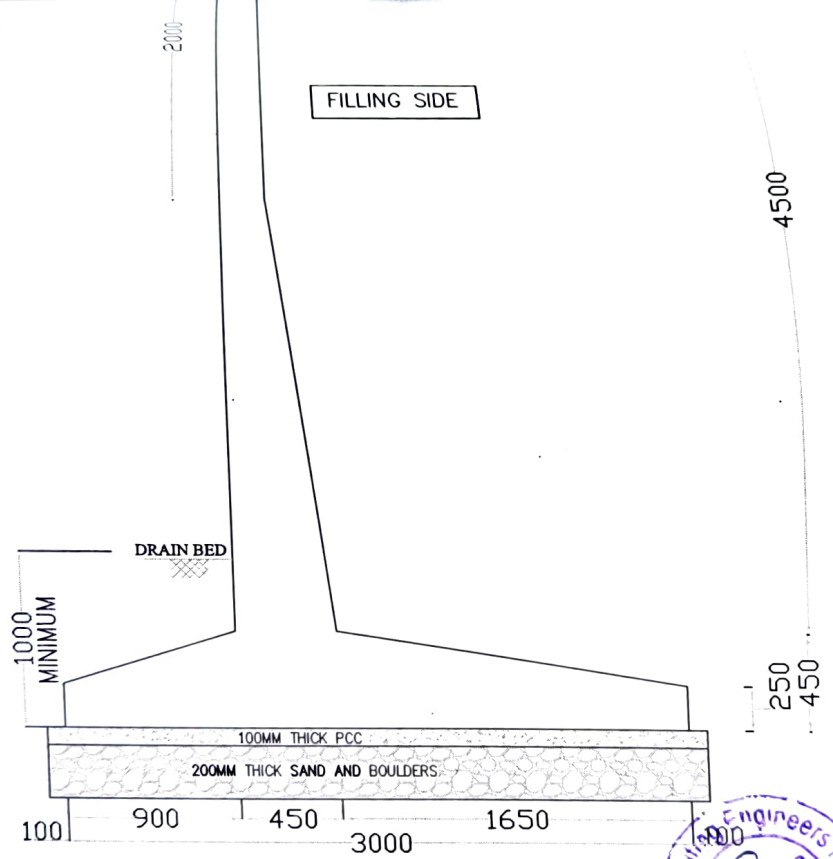

SECTION OF RETAINING WALL OF HEIGHT 5.0M

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BRUHATH BANGALORE MAHANAGARA PALIKE

NAME OF WORK :-
Construction of RCC Retaining wall,U-Shape Drain, Culvert and other allied works from BH-861 to Khodays Factory and other surrounding areas in Bangalore south assembly Constituency in Bommanahalli
Zone (BH-861)

CONSULTANT

SHIPRAMA CONSULTING ENGINEERS Pvt. Ltd.
Gangabal hangal Road, Sr M Vishweshwaraiah Layout,
8th extension block,Gidadakanahalli,muddayanapalya main road,
Anneparneshwari nagar Bangaluru,karnataka-560091
Ph: 23241948, CELL: 9964330888,
E-mail: shipramac888@gmail.com

CONSULTANT

ASSISTANT ENGINEER
SWD
BBMP BANGALORE

ASSI.EXECUTIVE ENGINEER
SWD
BBMP BANGALORE

EXECUTIVE ENGINEER
SWD
BBMP BANGALORE

CHIEF ENGINEER
SWD
BBMP BANGALORE

SCALE

DWG NO 1

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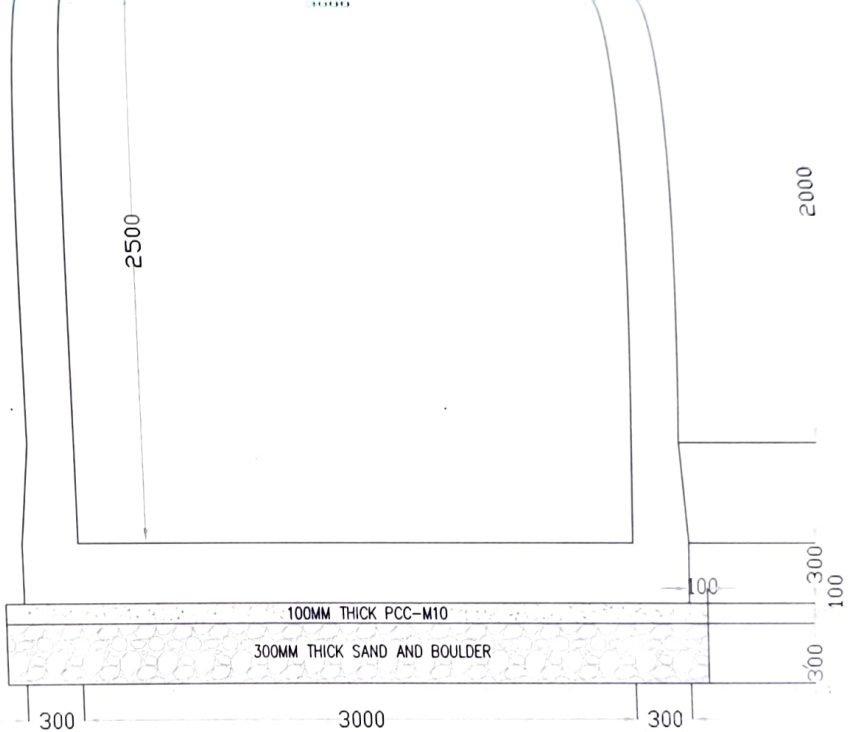

TYPICAL C/S U-SHAPE DRAIN

NOTES:-

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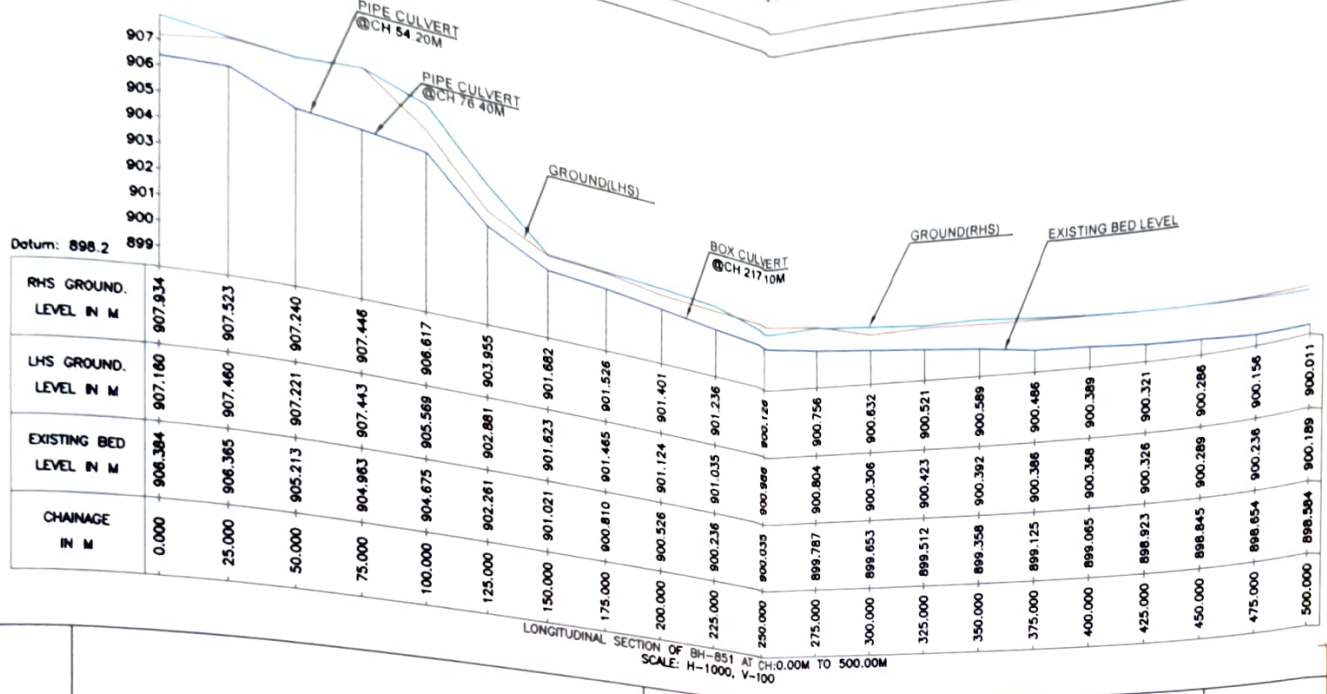
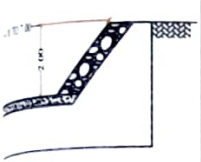
- GRADE OF CONCRETE FOR RCC SHALL BE M-25.

CLIENT - BRUHATH BANGALORE MAHANAGARA PALIKE NAME OF WORK - Construction of RCC Retaining wall,U-Shape Drain, Culvert and other allied works From Avalahalli Lake outlet BH851 to Joining BH-861 and other surrounding areas in Bangalore south assembly Constituency in Bommanahalli Zone (BH-851)	CONSULTANT SHIPRAMA CONSULTING ENGINEERS Pvt. Ltd. Gangaiah kempt Road, Sir M Vishweshwariah Layout 8th extension block,Dhddenahalli,mutthyanpalya main road Annapurneshwari nagar Bangalore,karnataka-560091 PH: 23241848, CELL: 9964338888, E-mail: shpramal888@gmail.com	CONSULTANT	ASSISTANT ENGINEER SWD BBMP,BANGALORE	ASSI.EXECUTIVE ENGINEER SWD BBMP,BANGALORE	EXECUTIVE ENGINEER SWD BBMP,BANGALORE	CHIEF ENGINEER SWD BBMP,BANGALORE	SCALE: DWG NO: 1 NOTE :- THIS DRAWING IS THE PROPERTY OF SHIPRAMA CONSULTING ENGINEERS PVT. LTD. IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT OUR WRITTEN PERMISSION.

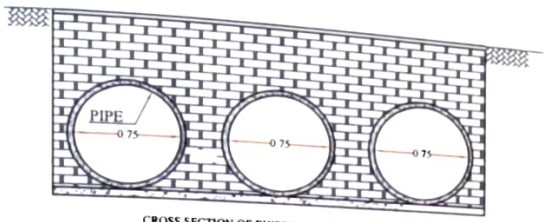


CHAINAGE IN M	EXISTING BED LEVEL IN M	LHS GROUND LEVEL IN M	RHS GROUND LEVEL IN M
0.000	906.384	907.160	907.934
25.000	906.365	907.460	907.523
50.000	905.213	907.221	907.240
75.000	904.963	907.443	907.446
100.000	904.675	905.569	906.617
125.000	902.261	902.881	903.955
150.000	901.021	901.623	901.682
175.000	900.810	901.465	901.526
200.000	900.526	901.124	901.401
225.000	900.236	901.035	901.236
250.000	900.035	900.966	900.126
275.000	899.787	900.804	900.756
300.000	899.653	900.306	900.632
325.000	899.512	900.423	900.521
350.000	899.358	900.392	900.589
375.000	899.125	900.386	900.486
400.000	899.065	900.368	900.389
425.000	898.923	900.326	900.321
450.000	898.845	900.289	900.286
475.000	898.654	900.236	900.156
500.000	898.584	900.189	900.011

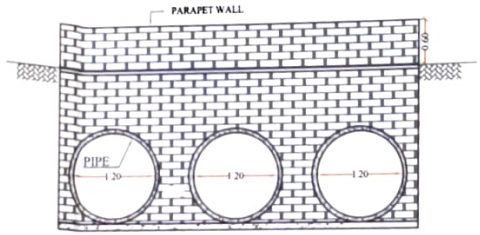
LONGITUDINAL SECTION OF BH-851 AT CH:0.00M TO 500.00M
SCALE: H-1000, V-100



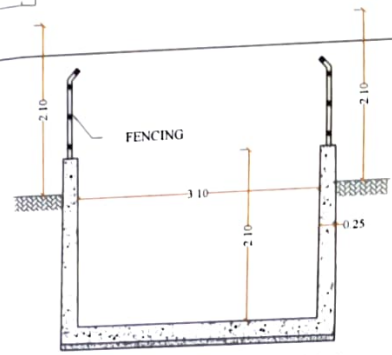
STONE PITCHING DRAIN
M



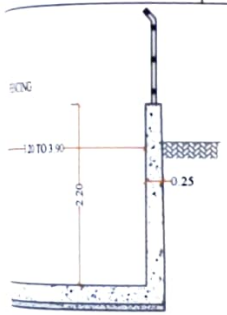
CROSS SECTION OF EXISTING SSM PIPE CULVERT
AT CH 54.20 M C-1



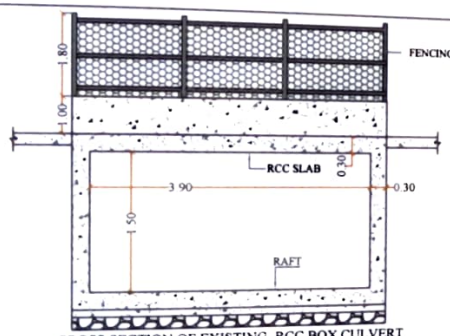
CROSS SECTION OF EXISTING SSM PIPE CULVERT
AT CH 76.40 M C-2



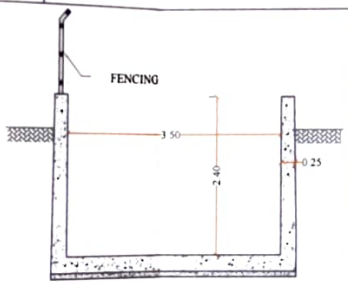
CROSS SECTION OF EXISTING RCC U-SHAPE DRAIN
AT CH 100.00 M



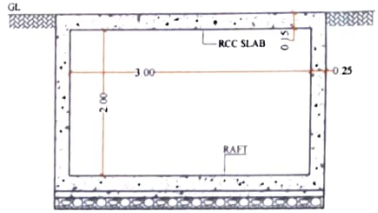
F EXISTING RCC U-SHAPE DRAIN
AT CH 200.00 M



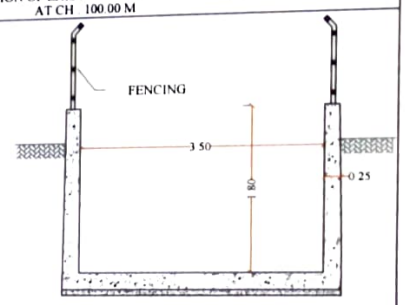
CROSS SECTION OF EXISTING RCC BOX CULVERT
AT CH 217.10 M C-1



CROSS SECTION OF EXISTING RCC U-SHAPE DRAIN
AT CH 300.00 M



CROSS SECTION OF EXISTING RCC BOX DRAIN
AT CH 400.00 M



CROSS SECTION OF EXISTING RCC U-SHAPE DRAIN
AT CH 500.00 M

ANGALORE MAHANAGARA PALIKE

ruct of RCC Retaining wall,U-Shape Drain, Culvert and
ed works From Avalahalli Lake outlet BH851 to Joining
nd other surrounding areas in Bangalore south assembly
ncy in Bommanahalli Zone.

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ASSISTANT ENGINEER	ASST.EXECUTIVE ENGINEER	EXECUTIVE ENGINEER	CHIEF ENGINEER
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SWD BBMP	SWD BBMP	SWD BBMP	

SCALE 1:200
SHEET NO 1
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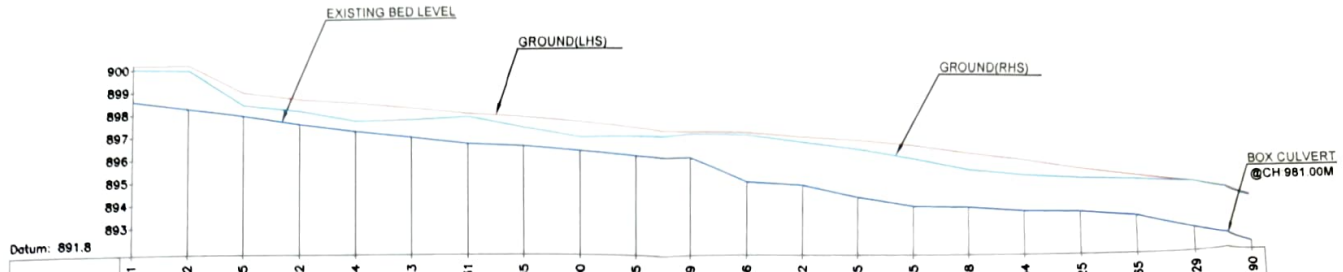
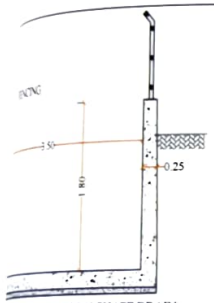


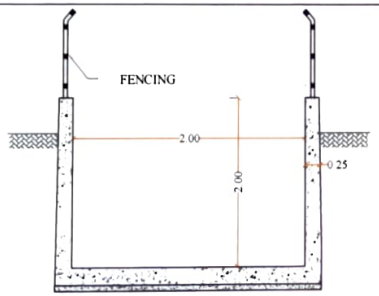
Datum: 891.8

CHAINAGE IN M	500.000	525.000	550.000	575.000	600.000	625.000	650.000	675.000	700.000	725.000	750.000	775.000	800.000	825.000	850.000	875.000	900.000	925.000	950.000	975.000	1000.000
EXISTING BED LEVEL IN M	898.584	898.210	897.856	897.462	897.132	896.865	896.569	896.436	896.213	896.032	895.942	894.879	894.734	894.235	893.869	893.845	893.693	893.659	893.464	892.856	892.151
LHS GROUND. LEVEL IN M	900.189	900.130	898.869	898.546	898.365	898.125	897.869	897.687	897.465	897.234	897.041	896.963	896.756	896.621	896.423	896.124	895.869	895.532	895.234	894.927	894.256
RHS GROUND. LEVEL IN M	900.011	899.912	898.315	898.032	897.584	897.623	897.731	897.235	896.800	896.865	896.939	896.856	896.532	896.245	895.865	895.428	895.234	895.125	895.065	894.929	894.190

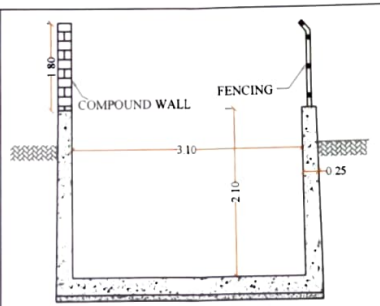
LONGITUDINAL SECTION OF BH-851 AT CH:500.00M TO 1000.00M
SCALE: H-1000, V-100



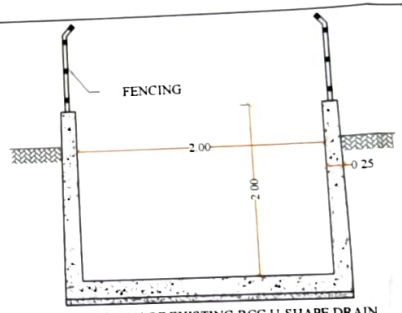
OF EXISTING RCC U-SHAPE DRAIN
AT CH 600.00 M



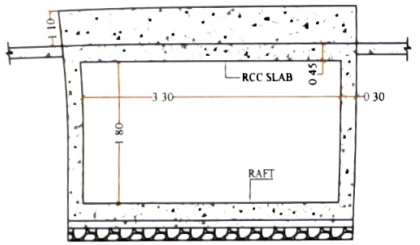
CROSS SECTION OF EXISTING RCC U-SHAPE DRAIN
AT CH : 700.00 M



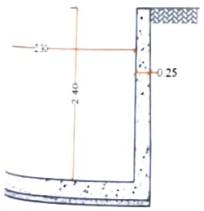
CROSS SECTION OF EXISTING RCC U-SHAPE DRAIN



CROSS SECTION OF EXISTING RCC U-SHAPE DRAIN
AT CH 900.00 M



CROSS SECTION OF EXISTING RCC BOX CULVERT
AT CH : 981.00 M C-05



OF EXISTING RCC U-SHAPE DRAIN
AT CH 1000.00 M

AT CH : 800.00 M

H BANGALORE MAHANAGARA PALIKE

...onstruction of RCC Retaining wall,U-Shape Drain, Culvert and ...ther allied works From Avalahalli Lake outlet BH851 to Joining ...H-861 and other surrounding areas in Bangalore south assembly ...Constituency in Bommanahalli Zone.

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SCALE : 1:200
SHEET NO 2
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